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StreamPro-100ASLEN/DE

SDVoE AVP1000 IP solution Seamless Matrix - Fiber Port

PRODUCT OVERVIEW

This **StreamPro-100ASLEN/DE** is an SDVoE-Compliant, All-In-One AV over IP solution that provides highest-quality, uncompressed 4K60 and zero-frame latency audio/video extension over a standard 10G Fiber Network Switch. It can transfer advanced HDMITM content such as HDR (high dynamic range), full color-depth and multi-channel HD Bitstream audio. Multiple control and data signals can be transmitted along with audio and video signals simultaneously , including RS-232 and 1G Ethernet. The product features a 10G fiber port, which can extend signals up to 40km via a single-mode fiber cable, or 300m via a multi-mode fiber cable. The 1G LAN port is for the purpose of utility port of product management or Ethernet extension. The encoder supports HDMITM loop out. The product supports bi-directional analog stereo audio pass-through. It supports RS-232 with 12V voltage output on connector.

This product combines multiple encoders/decoders with one or more 10GbE fiber switches to form an ideal IP solution for distributed 4K60 video matrix.

KEY FEATURES

- **Separate Encoder/Decoder Design:** Built with independent encoder and decoder modules featuring a 10G fiber optical port for high-speed AV signal transmission.
- **4K UHD Video Resolution:** Supports 4K2K@60Hz 4:4:4 video quality, fully compliant with HDMI™ 2.0b standards for exceptional image clarity.
- **HDCP 2.2 Compliance:** Delivers secure, encrypted content transmission with 18Gbps video bandwidth for uncompressed high-quality video.
- **HDR Format Compatibility:** Provides pass-through for HDR10, Dolby **Vision**, and **HLG**, ensuring rich color depth and superior dynamic range.
- **4K60 IP Matrix Support:** Enables 4K60 signal switching and distribution over IP networks for scalable AV system design.
- **HDMI™ Loop Out (Encoder):** Allows direct local signal monitoring or cascading without additional splitters.
- **Dual Network Connectivity:** Equipped with one 1G LAN port and one 10G fiber port, offering flexible network deployment options.
- **Comprehensive Control Options:** Operable via CEC, RS-232, TCP/IP, and Web GUI for versatile system control and integration.
- **10G Managed Network Compatibility:** Designed to function seamlessly with 10G managed network switches for reliable, high-bandwidth performance.
- **Dedicated IP Controller Compatibility:** Fully compatible with a dedicated IP controller box for centralized configuration and management.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

TECHNICAL SPECIFICATIONS

System Specifications

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	594MHz/18Gbps
Video Compression Standard	SDVoE
Video Network Bandwidth	10Gbps (SFP+)
Audio Latency	Zero latency
Video Latency	Zero latency
Input Video Resolution	640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p 60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 720x480i59.94Hz (480i59), 720x480p59.94Hz (480p59), 720x576i50Hz (576i50), 720x576p50Hz (576p50), 1280x720p50Hz (720p50), 1280x720p59.94Hz (720p59), 1280x720p60Hz (720p60), 1920x1080i50Hz (1080i50), 1920x1080i59.94Hz (1080i59), 1920x1080i60Hz (1080i60), 1920x1080p23.98Hz (1080p23), 1920x1080p24Hz (1080p24), 1920x1080p25Hz (1080p25), 1920x1080p29.97Hz (1080p29), 1920x1080p30Hz (1080p30), 1920x1080p50Hz (1080p50), 1920x1080p59.94Hz (1080p59), 1920x1080p60Hz (1080p60), 3840x2160p23.98Hz (2160p23), 3840x2160p24Hz (2160p24), 3840x2160p25Hz (2160p25), 3840x2160p29.97Hz (2160p29), 3840x2160p30Hz (2160p30), 3840x2160p50Hz (2160p50), 3840x2160p59.94Hz (2160p59), 3840x2160p60Hz (2160p60), 4096x2160p23.98Hz, 4096x2160p24Hz, 4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz, 4096x2160p59.94Hz, 4096x2160p60Hz
Output Video Resolution	Pass-through
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	LPCM2/5.1/7.1, Dolby Digital, Dolby Digital+, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X
Audio Sample Rate	22.05/24/32/44.1/48/88.2/96/176.4/192KHz
Transmission Distance	HDMI passive cable: 16.4ft/5m (4K60); 33ft/10m (4K30) 49ft/15m (1080p60) Single-mode optical fiber cable: 40km Multi-mode optical fiber cable: 300m (depending on the parameters of the 10G optical module)
ESD Protection	IEC 61000-4-2: ±15kV (Air-gap discharged) & ±8kV (Contact Discharge)

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TECHNICAL SPECIFICATIONS

Connection Specifications

Encoder	Input: 1x IN [HDMITM Type A, 19-pin female] 1x AUDIO IN [3.5mm audio jack] Output: 1x SFP+ [Fiber slot, 10Gbps] 1x OUT [HDMITM Type A, 19-pin female] 1x AUDIO OUT [3.5mm audio jack] Control: 1x 1G LAN [RJ45 jack] 1x RS-232 [4pin-3.5mm phoenix connector]
Decoder	Input: 1x SFP+ [Fiber slot, 10Gbps] 1x AUDIO IN [3.5mm audio jack] Output: 1x OUT [HDMITM Type A, 19-pin female] 1x AUDIO OUT [3.5mm audio jack] Control: 1x 1G LAN [RJ45 jack] 1x RS-232 [4pin-3.5mm phoenix connector]

Mechanical Specifications

Housing	Metal Enclosure
Color	Black
Dimensions	Encoder/Decoder: 95mm [W] x 120mm [D] x 21.5mm [H]
Weight	Encoder: 329g; Decoder: 323g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption(Max)	Encoder: 5.52W Decoder: 5.04W
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Operating Humidity	20% ~ 80% (relative humidity, no condensation)
Storage Humidity	10% ~ 90% (relative humidity, no condensation)

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